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L4: Entry 1 of 2

File: JPAB

Sep 26, 2000

PUB-NO: JP02000265368A

DOCUMENT-IDENTIFIER: JP 2000265368 A

TITLE: PRODUCTION OF COATED FABRIC IMPREGNATED WITH THERMOSETTING RESIN, COPPER-CLAD LAMINATE AND VERTICAL- TYPE DRYING OVEN

PUBN-DATE: September 26, 2000

INVENTOR-INFORMATION:

NAME

COUNTRY

SATO, YOSHINORI

HANAWA, AKINORI

MATSUZAKI, TAKASHI

ASSIGNEE-INFORMATION:

NAME

COUNTRY

HITACHI CHEM CO LTD

APPL-NO: JP11074213

APPL-DATE: March 18, 1999

INT-CL (IPC): D06 M 15/19; C08 J 5/24; H05 K 1/03; H05 K 3/00

ABSTRACT:

PROBLEM TO BE SOLVED: To provide a method for easily producing the subject coated fabric, to obtain a copper-clad laminate therefrom, and to provide a vertical-type drying oven for producing the above coated fabric.

SOLUTION: This method for producing the subject coated fabric comprises impregnating a fibrous base material 10 with a thermosetting resin varnish 2 followed by passing the fibrous base fabric thus impregnated through a vertical drying oven 7 to vaporize the a dilutive solvent; wherein the base fabric 10 being in movement through the drying oven 7 is heated by radiant heat from a heating unit (a panel heater 15) along with supporting the base fabric 10 by the aid of wind pressure as a result of blowing a gas against both surfaces thereof.

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC
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☐ 2. Document ID: JP 2000265368 A

L4: Entry 2 of 2

File: DWPI

Sep 26, 2000

DERWENT-ACC-NO: 2001-053133

DERWENT-WEEK: 200110

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TITLE: Manufacture of resin impregnated coated fabric for printed wiring boards, involves heating moving fiber base material into baking furnace using panel heater and spraying gas on both sides of moving base material

PATENT-ASSIGNEE:

ASSIGNEE

CODE

HITACHI CHEM CO LTD

HITB

PRIORITY-DATA: 1999JP-0074213 (March 18, 1999)

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES

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APPLICATION-DATA:

PUB-NO

APPL-DATE

APPL-NO

DESCRIPTOR

JP2000265368A

March 18, 1999

1999JP-0074213

INT-CL (IPC): C08 J 5/24; D06 M 15/19; H05 K 1/03; H05 K 3/00

ABSTRACTED-PUB-NO: JP2000265368A

BASIC-ABSTRACT:

NOVELTY - A thermosetting resin varnish (2) is impregnated to a fiber base material (10). The material (10) is passed to a vertical baking furnace (7), where the base material is heated by a panel heater (15). Gas is sprayed on both sides of the moving base material which is supported by a wind pressure. The dilute solvent in the coated fabric is volatilized.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following: (i) copper clad laminate containing prepreg which is obtained by cutting the coated fabric, (ii) vertical baking furnace which is provided along the conveyance path of fiber base material. The furnace has heaters on both sides of the moving fiber base material and oscillation prevention nozzle (17) for injecting gas on both sides of the base material.

USE - Useful as laminate sheet for printed wiring boards.

ADVANTAGE - The fluttering and meandering of fiber base material is prevented. The stress on the fabric is reduced sufficiently as the fiber base material has low tensile strength. Thereby thermosetting resin impregnation coated fabric is manufactured easily. The dimensional change and curvature of the copper clad material is reduced.

DESCRIPTION OF DRAWING(S) - The figure shows the rough composition of manufacturing apparatus of prepreg.

Thermosetting resin varnish 2

Vertical baking furnace 7

Fiber base material 10

Panel heater 15

Oscillation prevention nozzle 17

CHOSEN-DRAWING: Dwg.1/2

TITLE-TERMS: MANUFACTURE RESIN IMPREGNATE COATING FABRIC PRINT WIRE BOARD HEAT MOVE
BASE MATERIAL BAKE FURNACE PANEL HEATER SPRAY GAS SIDE MOVE BASE MATERIAL

DERWENT-CLASS: A32 A85 L03 V04

CPI-CODES: A08-R01; A11-B09A1; A12-E07A; A12-S08D2; A12-S08F; L03-H04E1;

EPI-CODES: V04-R07B; V04-R07P1;

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1] 018 ; H0328 ; M9999 M2073 ; L9999 L2391 ; L9999 L2073 Polymer Index [1.2] 018 ; ND01 ; Q9999 Q7454 Q7330 ; N9999 N6177*R ; N9999 N7147 N7034 N7023 ; N9999 N6860 N6655 ; K9892 ; K9789 ; Q9999 Q7818*R ; N9999 N6042*R ; B9999 B4171 B4091 B3838 B3747 ; N9999 N5856 Polymer Index [1.3] 018 ; A999 A419 ; S9999 S1161*R S1070

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2001-014933

Non-CPI Secondary Accession Numbers: N2001-040939

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